PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220 I as, where applicable, item 5 below.			
REG/G20580WO	G20580WO ACTION				
International application No.	International filing date (day/month/year)	(Earliest) Fliority Date (day/monthlyyear)			
PCT/IB2004/001583	22/04/2004 24/04/2003				
Applicant					
CLINOVATION					
This International Search Report has bee according to Article 18. A copy is being tr	en prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant			
This International Search Report consists	of a total of 06 sheets.				
·	a copy of each prior art document cited in this	report.			
language in which it was filed, un	international search was carried out on the balless otherwise indicated under this item.				
this Authority (Ru	ıle 23.1(b)).	ation of the international application furnished to			
b. X With regard to any nucle	otide and/or amino acid sequence disclosed	in the international application, see Box No. 1.			
2. X Certain claims were fou	and unsearchable (See Box II).				
3. Unity of invention is lac	king (see Box III).				
4. With regard to the title,					
the text is approved as su	ubmitted by the applicant.				
X the text has been establis	shed by this Authority to read as follows:				
RECOMBINANT FEL D 1 A	LLERGEN				
	•				
		·			
5. With regard to the abstract,					
	ubmitted by the applicant.				
the text has been establis	shed, according to Rule 38.2(b), by this Author	ity as it appears in Box No. IV. The applicant			
may, within one month fro	om the date of mailing of this international sear	ch report, submit comments to this Authority.			
6. With regards to the drawings,					
1	oublished with the abstract is Figure No.				
as suggested by	•				
	is Authority, because the applicant failed to su	ggest a figure.			
	is Authority, because this figure better charact				
b. X non of the figures is to b	be published with the abstract.				

International Application No PCT/IB2004/001583

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/12 C07K A61K39/35 G01N33/567 CO7K14/47 A61K38/17 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBASE, Sequence Search C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 1,2,4-6,X WO 00/20032 A (DARTMOUTH COLLEGE; MEDAREX INC (US)) 13 April 2000 (2000-04-13) 8-10. 13 - 21*whole document, in particular: paragraph bridging pages 1 and 2, example 1 and claims * -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 04/11/2004 18 October 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, BULCAO DE MELO BARRE

Fax: (+31-70) 340-3016

4

International Application No
PCT/IB2004/001583

C.(Continua	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	VAILES LISA D ET AL: "High-level expression of immunoreactive recombinant cat allergen (Fel d 1): Targeting to antigen-presenting cells." JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, vol. 110, no. 5, November 2002 (2002-11), pages 757-762, XP002301138 ISSN: 0091-6749 *whole document, in particular: Abstract; page 757, right hand column, first full paragraph-page 758, right hand column, second full paragraph and figure 1*	1,2,4-6, 8-10, 13-21
P,X	GRONLUND HANS ET AL: "Formation of disulfide bonds and homodimers of the major cat allergen Fel d 1 equivalent to the natural allergen by expression in Escherichia coli." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 41, 10 October 2003 (2003-10-10), pages 40144-40151, XP002301139 ISSN: 0021-9258 *WHOLE DOCUMENT*	1-21
A	ROGERS BRUCE L ET AL: "Recombinant Fel d I: Expression, purification, IgE binding and reaction with cat-allergic human T cells" MOLECULAR IMMUNOLOGY, vol. 30, no. 6, 1993, pages 559-568, XP0001203447 ISSN: 0161-5890 *whole document, in particular: Abstract; page 560, left hand column, second paragraph*	

4

Information on patent family members

International Application No
PCT/IB2004/001583

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0020032	Α	13-04-2000	US WO	2002164342 A1 0020032 A1	07-11-2002 13-04-2000

Form PCT/ISA/210 (patent family annex) (January 2004)

International application No.

PCT/IB2004/001583

Вох	No. I	Nucleotid and/or amino acid sequence(s) (Continuation of item 1.b of the first sh et)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ntion, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		X in written format
		X in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed filed together with the international application in computer readable form
		med tegeries was the medical approximation and the medical approxi
		furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
,	A -1-111	
3.	Addit	tional comments:
		•

International application No. PCT/IB2004/001583

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 19 because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 19 is directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
·
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
Consequently, this Intermetional Search Poport is
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
The additional ansatz food were appeared by the applicants protect
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.